

# ***EVM Meeting Agenda -- May 8th***

- ***Opening Remarks and Study Update (Dr. Lile) 8:30 - 9:00***
- ***DCMA Update (P. Amstutz) 9:00 - 9:45***
- ***Break 9:45 - 10:00***
- ***Processing Issues (J. McGahan) 10:00 - 11:30***
  - ***Stakeholder Concerns***
  - ***Current Status***
  - ***DAMIR Interface***
- ***Lunch 11:30 - 12:15***
- ***Resource and Business Issues (M. Metcalf) 12:15 - 1:00***
  - ***Resource Tracking Reports***
  - ***Business Rules -- Visibility post-publication, Analyst rules***
  - ***Other Databases***
  - ***IMS/CFSR***
- ***Future Direction (Lile) 1:00 - 1:15***
- ***Summary and Wrap-up (Lile) 1:15 - 1:30***



# ***PM/EVM Standards: EVGen3 (Third Generation Earned Value)***

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**Presented By:**

**Peter Amstutz**

**DCMA Information Technology  
Technical Requirements and Design  
Division**

**May 8th, 2007**

**09/11/16**

# ***The Problem***

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- Current means and methods to share cost and schedule data are cumbersome, limiting, and hard to implement
- Tend to “reinvent the wheel” for each project
- Lack of standardization hinders ability to analyze data, both real-time and historically

# ***The Solution***

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- Standardize data formats and methodology
- Utilize state-of-the-art IT technology for data communication
- Reuse the above to:
  - Streamline project management data reporting
  - Eliminate custom peer-to-peer integration efforts

# ***What is EVGen3?***

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- Earned Value: Third Generation
  - **Generation 1**
    - Paper-based Cost & Schedule reporting
  - **Generation 2**
    - EDI Transactions (839 & 806) for Cost & Schedule reporting
  - **Generation 3**
    - What we're building
    - XML-based document exchange for Cost & Schedule reporting

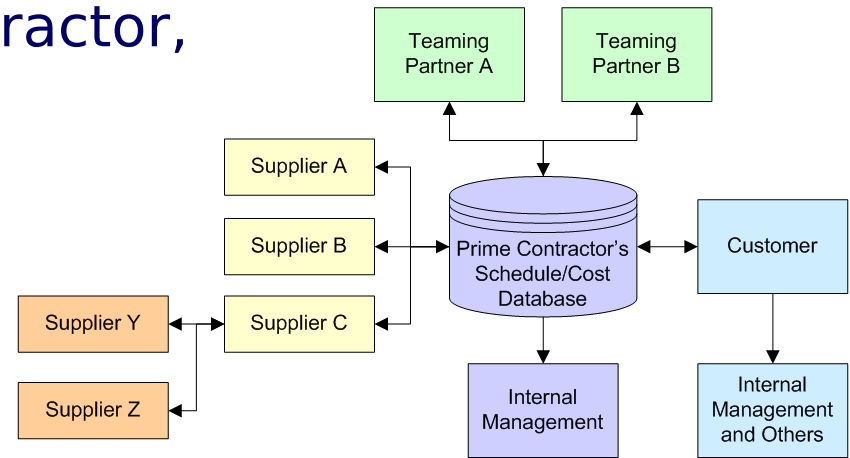
## ***EVGen3 Objectives***

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- Eliminate disparate formats and media
- Create a library of formal, published XML schemas (data components) that can be used by the project management community

# ***EVGen3 Objectives***

- Facilitate data exchange for all parties
  - Customer, prime contractor, teammates, multiple tiers of suppliers, internal management



- Help Software Industry support standard
  - Native support for common DoD formats
    - CPR, CFSR, IMS, CPSR, etc.

- Standardization occurring under UN/CEFACT (United Nations Committee for the Facilitation of Electronic Trade and Commerce)
- Draft Schemas completed November 2006
- Currently awaiting release of candidate schemas by UN/CEFACT



- Cost & Schedule Data Model (eg, XML Schema)
  - Currently in draft form
  - Official UN/CEFACT adoption anticipated in ~May 2007
- Three Implementation Verifications Required
- Purpose of verification
  - Prove validity of data standards
  - Prove usability of data exchange methodology

# ***Software Vendors***

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- Industry consortium actively involved with Earned Value and Project Management software vendors
  - Deltek
    - Formerly Welcom
    - Formerly C/S Solutions (wInsight)
  - Artemis
  - Dekker
  - Business Engine MPM
  - Primavera
- Incorporation of UN/CEFACT standard by major vendors for importing/exporting data
  - Eliminate need for custom data transformation by users

- Location for vendors to submit cost and schedule data to
- Currently a Gen 2 system (user interface, attachments)
- Working with vendors on pilot to standardize format of data input to repository

## **NGC - GlobalHawk**

- Conversions in progress
- Using in-house X12 to XML converter utility
- On time completion expected

## **NGC – GlobalHawk**

- Next steps
  - Validate CPR XML against schema
  - Produce CFSR in XML
  - Web Services Transfers of CPR and CFSR

## **Raytheon - JLENS and SM-6**

- Conversions in progress
- Using DCMA provided wInsight XML converter utility
- On time completion expected

## **Raytheon - JLENS and SM-6**

- Next steps
  - Validate CPR XML against schema
  - Produce CFSR in XML
  - Web Services Transfers of CPR and CFSR

## **LMCO - SBIRS High and MUOS**

- Conversions in progress
- Using DCMA provided wInsight XML converter utility
- On time completion expected



## **LMCO - SBIRS High and MUOS**

- Next steps
  - Validate CPR XML against schema
  - Produce CFSR in XML
  - Web Services Transfers of CPR and CFSR

## **Boeing - C-17 and MMA**

- Conversions completed
- Using DCMA provided wInsight XML converter utility
- On time completion expected

## **Boeing - C-17 and MMA**

- Next steps
  - Validate CPR XML against schema
  - Produce CFSR in XML
  - Web Services Transfers of CPR and CFSR

- DCMA's custom conversion for wInsight to XML works very well on CPR
- Schedule-based formats will require custom converters to be written. Microsoft Project converter is a 200 hour programming task.

- CFSR formats are currently in Excel. Is there a clear definition of this format?
- Pressure should be exerted on software vendors for native output

- DCMA would like to have web services be the method of transfer for Cost and Schedule Based XML files
- Requirements for surveillance on more than just ACAT I programs

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Defense Contract Management Agency Defense Contract Management Agency Defense Contract Management Agency

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**Questions?**  
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- U.S. Gov't Sponsor
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  - Chris Hassler  
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- EVGen3 Project Wiki
  - <https://evg3.dcmamilitary.mil>
- Draft UN/CEFACT Data Model (XML Schemas)
  - <http://www.dcmamilitary.mil/xsd>
- UN/CEFACT Organization
  - <http://www.unece.org/cefact>
- U.S. Government Registries
  - <http://www.xml.gov/et/evm.xml>
  - <http://www.core.gov>
  - <http://et.gov>

# Defense Cost and Resource Center



## ***EVM Central Repository Pilot Study***

*May 2007*

*John McGahan*

*Tecolote Research, Inc.*



# Agenda

- Stakeholder Issues & Discussion
- Software Update Demo (fielding Mar 8)
  - Manage Submission Events
  - Upload Changes
  - Lead Reviewer Functions And DAMIR Interface
  - Sample Metrics Reports
- Near Term To Do List
  - Standardization of submission process
  - Move To Standard Formats

# Stakeholder Issues & Discussion

# Stakeholder Issues

- From Last Meeting
  - Some discussion related to “wiping” the data before it is “used”.
    - Is the current data correct or should it be resubmitted?
    - When should be schedule wiping of the database?
  - Do submitters need to be “invited” or “approved” for submitting against a contract.
    - This would be a lead reviewer function.
- Other issues?

# Software Update



# Managing Submission Events

- MUOS

2007												
Month End	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Lockheed Martin	28-Jan	25-Feb	25-Mar	29-Apr	27-May	24-Jun	29-Jul	26-Aug	30-Sep	28-Oct	25-Nov	30-Dec
General Dynamics	28-Jan	25-Feb	1-Apr	29-Apr	27-May	1-Jul	29-Jul	26-Aug	30-Sep	28-Oct	25-Nov	30-Dec
Boeing	25-Jan	22-Feb	29-Mar	26-Apr	31-May	28-Jun	26-Jul	30-Aug	27-Sep	25-Oct	29-Nov	20-Dec
CPR	Thur	Thur	Thur	Thur	Thur	Thur	Thur	Thur	Thur	Thur	Thur	Mon
	22-Feb	22-Mar	26-Apr	24-May	28-Jun	26-Jul	23-Aug	27-Sep	25-Oct	22-Nov	27-Dec	28-Jan

## Submission Events

Contract Task: RDT&E

Event Name	Expected As Of Date	Expected Submission Date	Actual As Of Date	Actual Submission Date	Latest Document	Latest Document Status
May 07	5/27/2007	6/28/2007				None
Apr 07	4/29/2007	5/24/2007				None
Mar 07	3/25/2007	4/26/2007	3/25/2007	4/27/2007	107	Published
Feb 07	2/25/2007	3/22/2007	2/25/2007	3/27/2007	83	Published
Jan 07x	1/28/2007	2/22/2007	1/31/2007	2/27/2007	64	Published

1 2

[Manage Submission Events](#)



# Managing Submission Events

- JLENS

## CDRL Reporting LRIP Lot 5

Due Dates Between: 4/4/2007 and 10/1/2007

Status: All Statuses

**Contract:** FA8620-05-C-4692

Document	Title
367-4200-534 Rev: -	LRIP Lot 5

CDRL #	Title	Responsible Party	Due Date	Delivery Date
A007	Cost Performance Report (CPR) March 2007	Kevin Witherell	04-30-07	
A007	Cost Perform Report (CPR) April 2007	Kevin Witherell	05-28-07	
A007	Cost Perform Report (CPR) June 2007	Kevin Witherell		
A007	Cost Perform Report (CPR) July 2007	Kevin Witherell		
A007	Cost Performance Report (CPR) August 2007	Kevin Witherell		
A008	Contract Funds Status Report (CFSR) April 2007	Kevin Witherell		

### Submission Events

**Contract Task:** RDT&E

Event Name	Expected As Of Date	Expected Submission Date	Actual As Of Date	Actual Submission Date	Latest Document	Latest Document Status
Jun 07	5/18/2007	6/8/2007				None
May 07	4/20/2007	5/11/2007				None
Apr 07	3/23/2007	4/13/2007	3/23/2007	4/13/2007	91	Published
Mar 07	2/16/2007	3/9/2007	2/16/2007	3/12/2007	75	Published
Feb 07	1/21/2007	2/9/2007	1/19/2007	2/26/2007	63	Published

1 [2](#)

[Manage Submission Events](#)





# Managing Submission Events

- Global Hawk

## Submission Events

Contract Task: LRIP Lot 5

Event Name	Expected As Of Date	Expected Submission Date	Actual As Of Date	Actual Submission Date	Latest Document	Latest Document Status
Lot 5 CPR Aug 07	8/25/2007	10/1/2007				None
Lot 5 CPR Jul 07	7/25/2007	8/27/2007				None
Lot 5 CPR Jun 07	6/29/2007	7/31/2007				None
Lot 5 CFSR 3rd QTR FY07	6/25/2007	7/30/2007				None
Lot 5 CPR May 07	6/1/2007	7/2/2007				None

1 [2](#)

[Manage Submission Events](#)



# Minor Upload Improvement

## Document Info

### Contract Information

**Program Name:** XYZ Test Program  
**Contract Number:** Test Contract Number  
**Sub Contract Number:**  
**Military Handbook:** AIRCRAFT  
**Weapon System Type:** Transport  
**Contract Tasks:** Task 1

**Program Manager:** John McGahan  
**Contractor Name:** Bell Helicopter Textron, Inc.  
**Sub Contractor Name:**  
**Service:** AIR FORCE  
**Contract Type:** CPAF

**Location:** Tacoma WA  
**Contractor Division:** N/A  
**Sub Contractor Division:**

### Select Submission Event

Contract Task: Task 1

	Event Name	Expected As Of Date	Expected Submission Date	Actual As Of Date	Actual Submission Date	Latest Document Status
<a href="#">Select</a>	June 07 with CFSR	6/12/2007	6/27/2007			None
<a href="#">Select</a>	May 07 with CFSR	5/15/2007	5/24/2007			None
<a href="#">Select</a>	May 07	6/4/2007	5/4/2007			None

Selected Event Name: Expected As Of Date: Expected Submission Date:

### Document Details

As Of Date:   

Comment:  
(Max 256 chr.)

Save

### Point of Contact Information

Name:

Phone:

Fax:

Email:

## New Flow

- Select event
  - Shows selection data
- Specify Document Detail
- Update Contact Information
- Save

# Minor Upload Improvement

- Will now automatically take you to Files Upload tab.
- File Formats
  - Expecting 1 TRN or 1 XML format for CPR
    - Prefer only the current reporting period of data; not the full history file each month
    - Prefer Format 5 data submitted separately (e.g., a separate PDF); no need to include in TRN or XML

**Upload Document**

[Back](#)

[Cancel Submission](#)

[Document Info](#) **Files**

**Unclassified Documents Only**

[Select a file to Upload](#)

Caution: The total size of each file must be less than 20 mb.

[Browse...](#)
 CPR TRN (wlnsight) ▼
 File  [Upload](#)

Comment:

Make sure to select correct file extension.



# Minor Upload Improvement

## Upload Document

[Back](#)[Cancel Submission](#)[Document Info](#)[Files](#)[Review & Submit](#)

### Contract Information

**Program Name:** XYZ Test Program**Program Manager:** John McGahan**Location:** Tacoma WA**Contract Number:** Test Contract Number**Contractor Name:** Bell Helicopter Textron, Inc.**Contractor Division:** N/A**Sub Contract Number:****Sub Contractor Name:****Sub Contractor Division:****Military Handbook:** AIRCRAFT**Service:** AIR FORCE**Weapon System Type:** Transport**Contract Type:** CPAF**Contract Tasks:** Task 1

### Select Submission Event

Contract Task: Task 1

Selected Event: June 07 with CFSR

Expected As Of Date: 6/12/2007

Expected Submission Date: 6/27/2007

### Document Details

As Of Date: 6/4/2007

Resubmit: No

Comment: dsfds

### Point of Contact Information

Name: John McGahan

Phone: 2537561178

Fax:

Email: jmcgahan@tecolote.com

### Uploaded Files

	File Name	File Type	File Comment
	<a href="#">SM6_0703_x12.trn</a>	CPR TRN (wInsight)	This is the latest winsight data.

Warning: After the document has been submitted, the document will not be available for corrections. If corrections are required, a new document must be uploaded.

[Submit](#)

- Review Submission Data and Submit



# Summary Of Review Process

- Select Document To Review

[DCARC Home](#) [Contact Us](#) [EVM Administration](#) [EVM Home](#) [Upload Home](#) [Review Documents](#) [Search Contracts](#) [Search Documents](#)

## Document Review Home

[Documents](#)

[Contracts](#)

### My Documents

Documents Filtered By My Review Decisions:

<u>Document ID</u>	<u>Prime Contract Number</u>	<u>Sub Contract Number</u>	<u>Contract Task</u>	<u>Program Name</u>	<u>As Of Date</u>	<u>Submitter Name</u>	<u>Submitted Date</u>	<u>Role</u>
<a href="#">181</a>	<a href="#">Test Contract Number</a>		Task 1	XYZ Test Program	6/4/2007	John McGahan	5/4/2007	Lead Reviewer



# Summary Of Review Process

- Document Detail Summary

## Document Detail

[Back](#)

Details for Document: 181

### Contract Information

**Program Name:** XYZ Test Program

**Contract Number:** Test Contract Number

**Sub Contract Number:**

**Program Manager:** John McGahan

**Contractor Name:** Bell Helicopter Textron, Inc.

**Sub Contractor Name:**

**Location:** Tacoma WA

**Contractor Division:** N/A

**Sub Contractor Division:**

**Military Handbook:** AIRCRAFT

**Weapon System Type:** Transport

**Contract Tasks:** Task 1

**Service:** AIR FORCE

**Contract Type:** CPAF

### Document Information

**Document Task:** Task 1

**Submission Event:** June 07 with CFPSR

**Expected As Of Date:** 6/12/2007

**Expected Submission Date:** 6/27/2007

**Docuement ID:** 181

**Historical PM:** John McGahan

**As Of Date:** 6/4/2007

**Submission Date:** 5/4/2007

**Resubmit:** No

**Status:** Pending

**Status Set By:** John McGahan

**Status Set Date:** 5/4/2007

**Submitter Name:** [John McGahan](#)

**Submitter Comment:** dsfds

### Point of Contact Information

**Name:** John McGahan **Phone:** 2537561178


**Fax:** **Email:** [jmcgahan@tecolote.com](mailto:jmcgahan@tecolote.com)



# Summary Of Review Process

- Document Detail: Reviewer Functions

## Files for Document

	File Name	File Type	File Comment
	<a href="#">003_0703_x12.trn</a>	CPR TRN (wInsight)	This is the latest winsight data.

Save

## Document Reviewers

Reviewer	Organization	Role	Status	Status Date	Comment
John McGahan	Tecolote	Lead Reviewer	<input type="radio"/> Approved <input type="radio"/> Rejected <input checked="" type="radio"/> Pending		<input type="text"/>

Save

Prepare DAMIR Submission

## Lead Reviewer Actions

Set Document Status to Submitting

Alert Managerial Oversight

Publish Document

Reject Document

## Administrator Actions

Set Document Status To Pending

- DAMIR Interface
- Lead Reviewer
  - Send back to submitting
  - Publish/Reject



# DAMIR Interface

## Process Files

[Back](#)

### Files for Processing

	File Name	File Type	File Comment
<a href="#">Select</a>	<input type="text" value="0703_x12.trn"/>	CPR TRN (wInsight)	This is the latest winsight data.

### Selected File For DAMIR Submission

File Name:

File Type:

File Comment:

### Processing Results

Contract Number:

Effective Date:

Program Name:

Contract Type:

Government Share:

System Name:

SystemPhase:

### Actions

[Continue to DAMIR Submission](#)[Process Selected File](#)

- Select file to process.
- Review File Data





# DAMIR Interface

- Review/Enter Detailed Submission Data

**DAMIR Submission**

[Back](#)

DAMIR Submission Information

[Save Current Submission](#) [Publish to DAMIR](#) [Show Document Info](#)

Field Name:	Last Submission	From Uploaded File	Current Submission
Program Name:			XYZ Test Program
Program PNO:			
Contract Number:			Test Contract Number
Contract Task:			Task 1
Effort Number:			0
Effective Date:		3/25/2007	6/4/2007
Contract Modification Number			
Modification Date:			
Contract Name:			
Contract Type:		Other Contract Type	FFP FPEPA
Government Share:			
System Name:			
System Phase:		Production	Development



# DAMIR Interface

## DAMIR Submission Details

[Back](#)

DAMIR Submission Information	
<a href="#">Revoke this Submission</a>	<a href="#">Show Document Info</a>
The Submission was successfully published.	
Field Name:	Submitted Information
Program Name:	
Program PNO:	
Contract Number:	
Contract Task:	RDT&E
Effort Number:	0
Effective Date:	5/1/2007
Contract Modification Number	
Modification Date:	
Contract Name:	
Contract Type:	
Government Share:	
System Name:	
System Phase:	Development
Contractor Name:	
Division Name:	
Award Date:	
IBR Date:	
Start Date:	1/1/2004
Definitization Date:	9/30/2004

- Review Data
- Submit To DAMIR
- Revoke DAMIR Submission



# Sample Metric Reports

- DCARC Portal Administrator Reports

Home Admin Home Contact Us

## Knowledge Portal Admininstration

### User Management

- [Manage Users](#): Search for users by username or e-mail address, read and modify thier profile, roles, and approved status.
- [Create User](#): Register a new user for the site.

### Contract Management

- [Search Contracts](#): Search for contracts to review or edit
- [Add Contract](#): Add a new contract

### Manage Lists

- [Manage Lists](#): Create and edit list items
- [Manage Contractors](#): Create and edit contractors

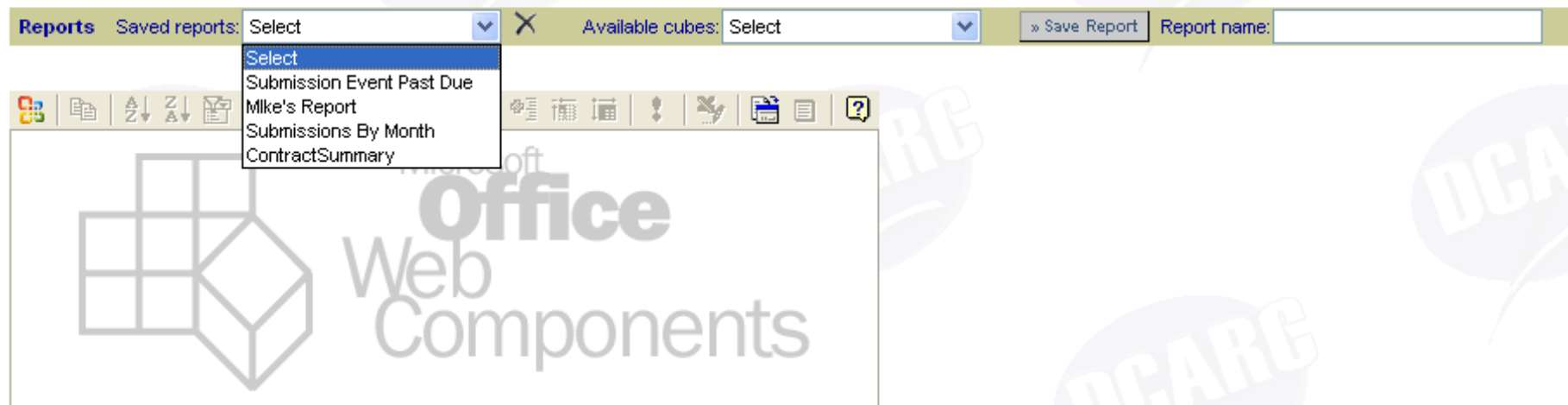
### Reports

- [All Users Report](#): Download a Excel spreadsheet with a report for all Users currently in the system
- [Site Metrics](#): View metrics for the DCARC sites
- [Cube Reports](#): Create and view DCARC data cubes. Click [here](#) if you need the OWC 11 component.

# Sample Metric Reports

- Ad-hoc Metric Reports
- Saved Reports

## DCARC Cube Reports



The screenshot displays the DCARC Cube Reports web application interface. At the top, there is a navigation bar with a "Reports" tab and a "Saved reports:" dropdown menu. The dropdown menu is open, showing a list of reports: "Select", "Submission Event Past Due", "Mike's Report", "Submissions By Month", and "ContractSummary". To the right of the dropdown menu is an "X" icon and an "Available cubes:" dropdown menu. Further right is a "Save Report" button and a "Report name:" text input field. Below the navigation bar is a toolbar with various icons for report management. The main content area features a large, faint watermark of a cube and the text "Office Web Components".



# Sample Metric Reports

## DCARC Cube Reports

Reports Saved reports: Submission Event Past Du X Available cubes: Select » Save Report Report name:

Microsoft Office PivotTable 11.0

Is On Time Is Submitted  
False False

Contract Number	Sub Contract Number	Contract Task	Submission Event	Days Past Due
aaa222aaa	aaa221aaa	Test Task	First Submission	9
DAAB07-03-C-N001	(Blank)	RDT&E	Apr 07	8
DASG60-98-C-0001	(Blank)	RDT&E	Nov 06	173
			Jan 07	103
			Mar 07	54
			Apr 07	19
F04701-95-C-0017	(Blank)	RDT&E	Feb 07	71
F04701-95-C-0017	HA80E5770M	RDT&E	Nov 06	162
			Dec 06	134
			Jan 07	97
			Feb 07	71
F04701-95-C-0017	HS55E4300N	RDT&E	Nov 06	162
			Dec 06	134
			Jan 07	97
			Feb 07	71
F33657-01-C-4600	(Blank)	RDT&E	Mar 07	43
			Apr 07	9
F33657-01-C-4601	(Blank)	LRIP Lot 1	Nov 06	153
			Jan 07	121
			Feb 07	63
			Mar 07	32
			Apr 07	2

PivotTable Field List

Drag items to the PivotTable list

- EVM Submission Event
  - Totals
    - Days Past Due
    - Submission Event Cour
  - Contract Key
  - Contract Number
  - Contract Type
  - Document Due Day
  - Location
  - Mil Handbook
  - Parent Contract FK
  - PC Division
  - PM
  - Prime Contractor
  - Program

Add to Row Area

# Near Term



# Standard Submission Process

- Double check contract numbers, subcontract numbers, tasks, and submission events
  - Be careful to select the right submission event; could be causing incorrect “resubmits”
  - Make sure your future submission events are set
- For each contract (task) submitting, we need a single file for each format.
  - Tagged by type.
  - Single format for CPR (TRN or XML)
  - Supporting documents tagged “Other”; maybe zipped.
  - IMS still on hold; do not submit.

# Standard Formats

- TRN
  - Used by wInsight; the EDI X12 for CPR
  - Just current reporting period
  - Not including format 5 data
  - Small memory footprint
- XML
  - Current formats for some programs appears to be wInsight generated. Would prefer the TRN format if from wInsight.
  - We're looking at supporting the DCAA/UNCFACT emerging standard
- Bottom line: We need to capture the data; not a printed form.



# Defense Cost and Resource Center



## *Resources and Business Rules*

*Mike Metcalf*  
*IDA/DCARC*

A collage of various defense-related images including a satellite, a stealth bomber, a rocket launch, a helicopter, a tank, a ship, and various aircraft.

**The On-line DoD Cost Research Library**

**Enhancing DoD Cost Analysis**

**The Defense Cost and Resource Center**  
201 12th Street South, Suite 220  
Arlington, Virginia 22202  
Phone: 703.601.4850 Fax: 703.604.1012  
<http://dcarc.pae.osd.mil>

# ***Resource Tracking Reports***

- ***All programs submitting reports monthly***
- ***March data - normal operations***
  - ***Report Processing***
    - ***Gov't PM average 2 hours per submission (max. 4 hours)***
    - ***Contractor average 3 hours per submission (max. 7 hours)***
  - ***Responding to Queries***
    - ***Gov't PM average 1.25 hours per month***
    - ***Contractor average nearly 0 hours per month***
- ***Abnormal operations include travel to meeting, completion of action items, conversion to XML***

# ***Business Rules Discussions***

- ***Post-publication access to data***
  - ***Should PMs have access to the database after publication? To their own reports or to all reports?***
- ***Analyst Rules document***
  - ***Updates, clarifications, additions?***
  - ***Looking to open EVM CR to analysts this week***

# ***Other Databases***

- ***MUOS - PMToolbox with reviews, approvals and resubmittals***
- ***SBIRS - EDAMS (moving to IDE), hosted by LM with access by PM***
- ***SM-6 - PM-hosted with raw data, analysis, etc.***
  - ***Would these remain if the EVM CR became permanent?***
  - ***Would these be helpful in getting historical data?***

# **CFSR**

- ***Uploaded by a number of programs***
  - ***Most on a quarterly basis***
- ***No size issues (correct?)***
- ***Requires few additional resources (correct?)***

# **IMS**

- ***No submissions to date***
  - ***Too large***
  - ***Some would require extract from a web portal***
- ***Seeking alternative ways to provide meaningful schedule data to OSD and Services***
  - ***Change the IMS DID to require the submission of a smaller extract***
    - ***Use CPR WBS as basis for fidelity?***
  - ***Other suggestions?***

# ***Other Policy or Business Rule Issues?***

***Other issues?***